

SpeakOutTM/SpeakOut ScanTM

User Manual



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SpeakOutTM/SpeakOut ScanTM

User Manual

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General description

SpeakOut™ is a portable speech generator designed for people who are unable to speak or have problems making themselves understood verbally.

The machine has two screens, one for the user and one for the conversation partner. SpeakOut is fitted with a Qwerty keyboard.

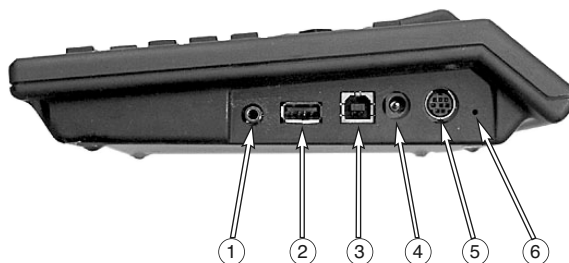
The keys are easy to press and the screen has good contrast. Integrated speech synthesis with male and female voices. SpeakOut has high storage capacity and simple menu control with a number of practical functions.

Overview of keys



- | | |
|---------------------|-------------------------------|
| 1. Shift | 9. Menu |
| 2. Space | 10. Navigating text and menus |
| 3. Comma, full stop | 11. Go back/Undo/Clear |
| 4. New line | 12. Light meter |
| 5. Read aloud | 13. Confirm |
| 6. Alarm | 14. Function key |
| 7. Phone book | 15. Off |
| 8. Delete | 16. On |

Connections on the right hand side




- | | |
|---------------------------------------|--|
| 1. Line out | 4. Power supply, charging |
| 2. USB port 1 for printer, USB memory | 5. PT-50 external IR transmitter/ adapter cable for switches |
| 3. USB port 2 for PC | 6. Reset |

Getting started

Check that you have the following parts:

SpeakOut, power adapter, USB memory, USB cable.

Starting

1. Charge the battery. It takes 5 hours to charge the battery. You can use SpeakOut with the power adapter connected.
2. Press **ON** and write a message..
3. Press the **mouth key** and everything you have written is read aloud via speech synthesis.
4. Clear the screen by pressing **the delete key=** 
5. Speech can be switched OFF/ON with the shortcut keys **F + M**.

Settings Press **M** to access the settings menu. Navigate with the **arrow keys** and confirm a setting with **Yes**. Press **No** to go back/undo.

All settings can be selected with the **arrow keys** or the number of the setting you want.

Factory settings

Speech	On
Volume	18
Speed	15
Pitch	15
Voice.....	Ryan
Read aloud	All
Text reproduction	Off
Key sound	Off
Background light.....	On
Key repeat rate.....	1
Slow keys	0
Bounce keys.....	0
Predictive text.....	1 letter
Autotext	On
Lower/Upper case	Lower case
Font size.....	Large
Standby	5 min.

Menu

1. Speech
2. Keyboard
3. Documents
4. Word prediction
5. Tools
6. Other
7. Environment control
8. System
9. Scanning


1. Speech

Activation

- Off
- On


Select the setting with the **up/down arrow key** and confirm with **Yes**. If you have selected **On**, you switch speech synthesis **Off/On** with the shortcut keys **F + M**.

Volume

Volume Internal Min.  Max (30)

Volume External Min.  Max (30)

Speed Min.  Max. (30) recommended 15

Pitch Min.  Max. (30) recommended 15

Select the setting with the **right/left arrow key** and use trial and error to find the settings that are best for you. Confirm with **Yes**.

Volume Up/Down

You can increase and decrease the volume by pressing F + mouth key. Select the sound level with the right/left arrow. Confirm with Yes, or No to undo.

Voice

- Ryan
- Heather

From program version 2.2.1 Ryan is installed. Both Ryan and Heather are stored on the enclosed USB-memory.

To change voice; Connect the USB memory and select System and software upgrade from the menu. You will be asked “are you sure?”. Press YES and you can choose a voice. Press 0 for Ryan or 1 for Heather. Ensure that SpeakOut is charged when you change voices.

To make a system upgrade for the scanning version of SpeakOut, you need an USB-hub and a USB-keyboard.

Note! When changing voices, SpeakOut is reset to factory settings. If you want to save documents etc. you have to make a backup on the USB-memory.

Direct reply

You can reply Yes or No directly by pressing Yes or No.

Speech playback

- Word
- Sentence
- All

Use the **up/down arrow key** to select how you want the speech synthesis to read aloud what you have written when you press the **mouth key**. Confirm with **Yes**. Example: If you have selected the setting **Sentence**, the last sentence is read aloud when you press the **mouth key**.

Typing playback

Select the setting with the **up/down arrow key** and confirm with **Yes**. What you write will be read aloud according to the setting you have selected.

- | | |
|------------------|--|
| <i>Off:</i> | Read aloud is switched off. |
| <i>Letter:</i> | Each letter is read aloud. |
| <i>Word:</i> | Each word after a space is read aloud. |
| <i>Sentence:</i> | Each sentence after a full stop and other punctuation marks is read aloud. |

2. Keyboard

Special characters:

" # \$ ' : ; < > []
^ _ \ { | } €

Characters that are not on the keyboard can be found here. Enter your text. If you need a special character, go to the Keyboard/Special characters menu. Select the character with the **arrow keys** and confirm with **Yes**. The character is inserted where the cursor is located.

You can also open the special characters menu with the shortcut keys **F + Z**.

Auditory feedback

- Off
- Weak
- Medium
- Strong

Select the setting for sound when you press the keys. Select the setting with the **up/down arrow key** and confirm with **Yes**.

Key repeat rate Min.  Max. (4)

Select the setting for keystroke repetition speed. Scale 0-1-2-3-4.

If you select the setting 0, there is no key repetition. Select the setting with the **right/left arrow key** and confirm with **Yes**.

Slow keys Min.  Max. (3)

Select the setting for how long a key must be held down before it is activated.

Scale 0-1-2-3. Select the setting with the **right/left arrow key** and confirm with **Yes**.

Bounce keys Min.  Max. (4)

Select the setting for how long a key is ignored after you have pressed it once.

Scale 0-1-2-3-4. Select the setting with the **right/left arrow key** and confirm with **Yes**.

Autotext

- Off
- On

The setting **On** generates an upper case letter after a full stop and other punctuation marks. Select the setting with the **up/down arrow key** and confirm with **Yes**.

Lower/upper case

- Upper case
- Lower case

Select whether you want to write in UPPER CASE or lower case. If you select upper case, the predictive text and the menu are also changed. Select the setting with the **up/down arrow key** and confirm with **Yes**.

Font size

- Small
- Big

Select the character size you want. If you select Medium, the predictive text and the menu are also changed. Select the setting with the **up/down arrow key** and confirm with **Yes**.

Small: 7 lines of text

Big: 3 lines of text

Menu font size

Choose which font to use in the menus. If the user requires large font and has to access the menus, then choose large font. If the user requires small font or doesn't access the menus choose small font.

When choosing a small font in the menus, you will be able to see the entire menu text. When choosing large font in the menus, some of the menu text will be cut off to fit the screen.

3. Documents

Open

Enter any letter in the storage name field and all documents saved for the letter are opened. Then select the document required with the **up/down arrow key** and confirm with **Yes**. All documents saved can be opened with **shift** and*.

You can also open a document with the shortcut keys **F + O**. This takes you directly to the open function.

Press the function key **F** twice plus a letter to open a saved document under the letter selected. Example: **FF A** (opens documents starting with A). All the documents saved under A are displayed on the screen. You can save several documents under each letter. When this function is used, "O" is displayed on the screen.

Save

Enter the document you want to save, go to the **Documents** menu and press **Yes**. Select Save and press Yes. Enter a storage name and confirm with **Yes**.

You can also save a document with the shortcut keys **F + S**. This takes you directly to the save function.

Delete

A memory: Go to the **Documents** menu and press **Yes**. Select delete and press **Yes**. Select a document and press **Yes**. Enter a storage name or the first letter and press **Yes**. Select the document required with the up/down arrow key and confirm with **Yes**.

All memories: Go to the **Documents** menu and press **Yes**. Select delete and press **Yes**. Select all documents and press **Yes**. You will be asked: Delete all text memories? Press **Yes** or **No**.

4. Word prediction

Select this function if you want suggestions for words when you are writing. Select the setting with the **up/down arrow key** and confirm with **Yes**. The words suggested are displayed at the top of the screen. If the word you write is not in the word list, you are asked, after you enter a space, whether you want to save the new word. Confirm that you want to save a new word to the word list with 1. The words are saved in order of frequency.

Activation setting

Off: Word prediction is switched off. No suggestion is made.

1 letter: Word prediction starts when you have entered one letter. Select the suggestion you want with the number keys.

2 letters: Word prediction starts when you have entered two letters. Select the suggestion you want with the number keys.

3 letters: Word prediction starts when you have entered three letters. Select the suggestion you want with the number keys.

Delete word

Word: Enter the word you want to delete from the word list. Confirm with **Yes**. You have to enter the entire word.

5. Tools

Time and date

Display time and date

The date and time are displayed on the screen and disappear automatically after two seconds. You can also use the shortcut keys **F + T**.

Set time and date

New time (hhmm): Enter the time, for example 1512. Confirm with **Yes**. New date (yymmdd): Enter the date, for example 050108. Confirm with **Yes**.

Reminders

Display reminders

All reminders are displayed with the date, the time and a text message. Reminders are displayed in date order. Old reminders are deleted automatically.

Add reminder

Date (yymmdd): Enter the date, for example 050108. Confirm with **Yes**. Time (hhmm): Enter the time, for example 1512. Confirm with **Yes**. Text: Enter the reminder you want, for example that it is time to take medicine. Confirm with **Yes**.

Add daily reminder

Time (hhmm): Enter the time, for example 1512. Confirm with **Yes**. Text: Enter the reminder you want, for example that it is time to take medicine. Confirm with **Yes**.

Remove reminder

All reminders are displayed with the date, the time and a text message. Select the reminder with the **up/down arrow key** and confirm with **Yes**.

You can also access the reminders menu directly with the shortcut keys **F + R**.

At the time set for the reminder, SpeakOut emits a sound and the reminder and time are read aloud and displayed on the screen. Press **No** to delete.

Repeat reminder: **F + Space**

Phone book

Search

You can search for a name and number in the phone book. Confirm your selection with **Yes**. The search result is displayed on the screen.

Name: Enter the name and confirm with **Yes**. You can also enter the first letter of the name you are searching for. All the entries saved for the letter are displayed on the screen.

Number: Enter the phone number you are searching for and confirm with **Yes**. If you have saved phone numbers with the dialling code, all phone numbers with the same dialling code are displayed on the screen when you search for a dialling code.

Add

Name: Enter the name and confirm with **Yes**.

Number: Enter the phone number and confirm with **Yes**.

Change

Name: Enter the name and confirm with **Yes**. Everyone with that name is displayed on the screen. Select with the **up/down arrow key** and confirm the change in the phone book with **Yes**.

New name: Enter the name and confirm with **Yes**.

New number: Enter the phone number and confirm with **Yes**.

Remove

Name: Enter the name and confirm with **Yes**.

Everyone with that name is displayed on the screen. Select with the **up/down arrow key** and confirm the removal from the phone book with **Yes**.

You can also access the phone book directly by pressing the key with the **telephone receiver**.

Calculator

These arithmetical operations are available:

Addition +, subtraction -, multiplication *, division / and per cent %.

Press the Shift key and the number keys for the characters +, -, *, / or %. Press **Yes** or **New line** to display the result. If you want to perform another calculation, press the delete key and the screen is cleared.

You can also access the calculator directly with the shortcut keys **F + C**.

6. Other

Print

Insert the USB cable for the SpeakOut in USB port 1 and the printer's USB port. Enter any text in the text editor or open a saved document and select the Other/Print menu. Press **Yes**. To be able to print, the printer must have PCL3 or higher. PCL3 is the basic level for printers that can accept ascii strings and then print them. To find out whether your printer has PCL3, check the printer's data sheet and see what it says under printer language.

You can also access the print function directly with the shortcut keys **F + P**.

Contact us for an updated list of printers that can be used.

Transfer text to PC

Connect the USB cable to USB port 2 on the SpeakOut and to the computer's USB port. Open any word processing program on the computer and place the cursor where you want to insert the text. Enter any text in the text editor or open a saved document and select the Other/Transfer text to PC menu. Press **Yes**. Transfer of text to PC worked with Windows 98, XP and 2000 when this manual was written. It may also work with other operating systems but this had not yet been tested when this manual was written.

You can also access the transfer text to PC menu directly with the shortcut keys **F + N**.

Standby

1. Off
2. 1 minute
3. 5 minutes
4. 10 minutes
5. 15 minutes
6. 30 minutes

Select the time you want for the standby function with the **up/down arrow key** and confirm with **Yes**. SpeakOut enters sleep mode after the time selected to save the battery when the machine is not in use. Press **ON** to activate the machine again. It is recommended that you set a time so that the machine's operating time is as long as possible. Use trial and error to find the setting that is best for you. SpeakOut uses a little power even in sleep mode.

Backup

Backup: Using the USB memory supplied, you can make a backup of all settings and all information saved. Connect the USB memory to USB port 1, select Backup and press **Yes**.

Reset from backup: Connect the USB memory to USB port 1, select Reset from backup and press **Yes**. SpeakOut restarts when the reset has been completed.

Sound Channels

1. Integrated loudspeaker
2. External amplifier
3. Internal loudspeaker and external amplifier

If the internal loudspeaker is not loud enough at maximum volume, you can connect an external amplifier with a loudspeaker to the line output (Line OUT). You can also connect headphones.

Clock

1. Off
2. On

To switch the clock display on the screen off or on.

7. Environment control

1. Lights
2. Doors
3. Door phone
4. TV
5. Text TV
6. Video
7. CD/DVD
8. Telephone

You can access the environment control menu directly with the shortcut keys **F + I**.

You need a PT-50 IR transmitter to control your devices remotely from SpeakOut. The PT-50 is a programmable remote control that replaces the remote controls for your TV, video, DVD, etc. You enter the channels using the PC software supplied with the PT-50. Separate user manual for the PT-50.

PT-50 IR Transmitter for SpeakOut

Product code: 1820252

8. System

1. Factory settings
2. Battery calibration
3. Program version
4. Contrast
5. Software upgrade
6. Backlight

Factory settings

Select Factory settings to reset SpeakOut to the factory settings. Press **Yes** and you will be asked: Reset to factory settings? Press **Yes** or **No**.

The factory settings and the basic word list are reset.

Battery calibration

When you select battery calibration, you are asked “Are you sure?”. Press **Yes** or **No**. Battery calibration is performed only if you suspect that the battery indicator is displaying an incorrect value. If, for example, the value displayed is too low although there is a lot of capacity left. Or if the indicator displays a value that is too high and SpeakOut switches off too soon.

The purpose of the calibration is for the battery scale to be correct.

Proceed as follows:


1. Switch off the time set for the automatic off function.
2. Select calibration from the menu and press **Yes**. You are asked “Are you sure?” Press **Yes**.
3. Leave SpeakOut on until it switches itself off.
4. Fully charge the battery.
5. Repeat points 3 and 4 once more.

Software version

The software version of SpeakOut is displayed on the screen.

Contrast

Adjusting the contrast of the screen. Select the setting you want with the **right/left arrow key** and confirm with **Yes**.

Min.  Max. (100)

Software upgrade

A software upgrade must only be performed by qualified personnel from the aids centre or Permobil.

Backlighting

1. Automatic

2. Always on

Automatic: No backlighting is activated but the lighting is switched on if the ambient light conditions are poor.

Always on: The backlighting is activated and is switched off when you stop writing. It is switched on again as soon as you start writing.

9. Scanning

- Connect to a USB keyboard to make settings.
- Settings menu - F1.
- Scroll menus with the arrow keys.
- Confirm your menu selection with Enter or a number.
- Back/Exit – Esc.
- Function key – F4.
- Warning signal - F8.
- Phone book - F9.
- AV – F12.

You can test the settings with the keyboard connected.

The adapter cable supplied has three connections:

- Switch 1
- Switch 2
- PT-50 IR transmitter

Connect the cable to the output for PT-50 on the right side of SpeakOut.

1. Scanning method
2. Scanning speed
3. Acceleration
4. Pause
5. Repetitions
6. Release

Scanning method

Scanning method R/C Auto

1 switch, row/column. Automatically scans the rows until you press the switch to select a row. Then scans the switches in the row until you press the switch to select a button.

Start scanning by pressing switch 1.

Scanning method R/C Manual

2 switches, row/column. Switch 1 is used to move down row by row until you are in the row you want. Press switch 2 to select the row you want. Press switch 1 to move along the row until you are on the switch you want. Press switch 2 to select the switch you want. Start scanning by pressing the switch.

By holding down switch 1 you can increase the speed to move faster in the rows and columns. To do this, you must have made the relevant setting under Acceleration and selected high scanning speed.

Scanning speed

Setting 1–10. Select with the right arrow key or left arrow key.

Acceleration

1. Off
2. Fast
3. Faster

The scanning speed increases when switch 1 is held down. This applies only to manual scanning with two switches.

Pause

Setting 0–10. Select with the right arrow key or left arrow key.

You can cancel by clicking once again within “the selection” and thus start again if you have passed a selection.

Repetitions

Setting 1–10. Select with the right arrow key or left arrow key.

How many times the rows and columns are to be scanned before scanning starts again. This applies only to automatic scanning with one switch.

Release

1. No
2. Yes

When you select “Yes”, the selection is activated when you release the switch Yes.

Shortcut keys

There are a few shortcut keys that give you rapid access to various functions. So you need not go via the menu. Press the function key **F + letter**.

 = Clear screen

F + mouth key = Volume of internal speaker

F + O = Open

F + S = Save

F + P = Print

F + T = Display time and date

F + R = Reminders (shows active reminders)

F + C = Calculator

F + M = Mute

F + N = Transfer text to PC

F + D = Turn off receiver display

F + I = Environment control

F + L = Lock menu key

F + Z = Special characters

Editing text

Using the yellow arrows, you can move the cursor in the text up/down and right/left. The delete key deletes characters to the left of the cursor. Start a new line with the new line key. Normally you do not need to change lines because there is an automatic line break when a line is full.

Symbols on the screen

Symbol for battery status.

F = Function key

S = Shift

O = Open document

G = Screen number two is switched off

L = Menu key locked

Battery

- The battery is specially designed for Permobil and is a Li-Ion battery pack that must not be replaced by another type. The battery is a consumable and should only be changed by Permobil.
- A battery symbol is displayed to the right on the screen. This indicates the machine's battery status. When the battery is dead, SpeakOut switches itself off automatically.
- It takes around 5 hours to charge a dead battery. You can use SpeakOut while charging the battery.
- Use only the battery charger supplied. The charging socket is on the right side of the machine. Other chargers may damage the machine.
- Charge the battery overnight. The battery benefits from always being as fully charged as possible. Regular charging contributes to extending the life of the battery.
- The battery does not need to be discharged before you charge it. Charging before full discharge does not damage the battery.
- Battery life: 500-1000 charges.

Capacity

- The operating time after a charge depends on the time you have set for the automatic off function and on how much the machine is used.
Approximately 10-20 hours of normal use.
Example: If the standby function is set to OFF, the machine has 10 hours of operation. If it is set to 5 min., the machine has 15-20 hours.
- If you do not have enough light where the machine is used, the backlighting on the screens is switched on. This requires more power, which results in a shorter life.

Storage capacity:

10-15 million characters. This includes all storage, reminders, own words, documents, etc.

Important The battery is switched off automatically to prevent harmful discharge causing the electronics to be disconnected. This occurs when the battery indicator shows empty. To start SpeakOut again, charge the battery. It takes around 1 minute before the system starts operating, i.e. has loaded the operating system and word list.

If SpeakOut will not start, you have to disconnect the charger and reconnect it. Reset the machine by pushing a paper clip into the reset hole on the right side of SpeakOut.

Resetting SpeakOut

If SpeakOut does not work correctly or if it hangs, you can restart it by inserting a folded-out paper clip in the reset hole on the right side of the device.

Warranty

- SpeakOut has a 2 year warranty from the invoice date.
- The warranty does not apply to mechanical damage.

Returning SpeakOut

For technical information and repairs please contact your local dealer.

Maintenance tips

- Do not drop SpeakOut on the floor.
- Do not use solvents.
- Use a damp cloth to wipe the machine.
- Charge the battery overnight.
- Avoid humid environments, temperatures over +50°C, strong sunlight or cold below -30°C.
- Use only cables supplied by Permobil.

Technical specifications

Dimensions: 24.5 x 19.5 x 5.2 cm.

Weight 1 kg.

Screens with backlighting:

1 LCD, 40 x 2 characters.

1 LCD graphic screen with 240 x 64 pixels.

Battery: Lithium-ion

Connections:

1 power adapter

1 PT-50 IR transmitter

1 audio input, line out

1 USB for PC

1 USB for external unit, for example printer, USB memory.

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